

**ABSTRACT**

A feedback controlled tension applying system includes a corrugated fin processing device that processes a fin material in continuous sheet form while applying a tension to the fin material, a tension applying device that applies the tension to the fin material, an encoder that measures a moving amount of the fin material, and a control device that feedback-controls the tension applying device based on a measurement result of the encoder so that the moving length amount per predetermined time of the material becomes a set value that is set in advance.